(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference		of Transmittal of International Search Report		
NIS-999-PCT	ACTION (Form PCT/ISA/2	220) as well as, where applicable, item 5 below.		
International application No.	International filing date (day/month/year)	(Earliest) Priority Date (day/month/year)		
PCT/JP 03/11491	09/09/2003	10/10/2002		
Applicant				
NISSAN MOTOR CO., LTD.				
This International Sparch Report has been				
according to Article 18. A copy is being tra	n prepared by this International Searching Auth ansmitted to the International Bureau.	nority and is transmitted to the applicant		
This letters shipped Coaseh Boned consists				
This International Search Report consists It is also accompanied by	a copy of each prior art document cited in this	report.		
Basis of the report With regard to the language the includes the language.	international accept was corried out on the bay	in of the international analysation in the		
	international search was carried out on the bas ess otherwise indicated under this item.	sis of the international application in the		
the international search w. Authority (Rule 23.1(b)).	as carried out on the basis of a translation of the	ne international application furnished to this		
b. With regard to any nucleotide an		sternational application, the international search		
was carried out on the basis of the contained in the internatio	e sequence listing : nal application in written form.			
	rnational application in computer readable form	n.		
furnished subsequently to	this Authority in written form.			
furnished subsequently to	this Authority in computer readble form.			
	sequently furnished written sequence listing dos sfiled has been furnished.	pes not go beyond the disclosure in the		
the statement that the info furnished	rmation recorded in computer readable form is	s identical to the written sequence listing has been		
2. Certain claims were four	nd unsearchable (See Box I).			
3. Unity of invention is lack	king (see Box II).			
4. With regard to the title ,				
X the text is approved as sui	bmitted by the applicant.			
	hed by this Authority to read as follows:			
_				
5. With regard to the abstract,				
X the text is approved as sul	bmitted by the applicant.			
the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box III. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.				
6. The figure of the drawings to be publi		1		
X as suggested by the applic	cant.	None of the figures.		
because the applicant faile	ed to suggest a figure.			
because this figure better	characterizes the invention.			

International Application No PCT/JR 11491

A. CLASSIF	TCATION OF SUBJEC	T MATTER
IPC 7	F16K17/04	F16K47/08

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols) $IPC \ 7 \ F16K$

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT				
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.		
х	FR 1 006 564 A (PROCEDES DABEG SOC D EXPL DES) 24 April 1952 (1952-04-24)	1,11		
A	<pre>page 1, right-hand column, last paragraph -page 2, left-hand column, paragraph 7; figure</pre>	8		
х	US 5 762 091 A (SARNE DANIEL L ET AL) 9 June 1998 (1998-06-09) abstract; figure 4	1,8,11		
Α	DE 35 35 009 A (THYSSEN IND AG SCHMIEDETECHNIK) 9 April 1987 (1987-04-09) figure 2	1,4,5,8		
Α	GB 2 262 328 A (BARNES & GANNON LIMITED) 16 June 1993 (1993-06-16) abstract; figure 1	2,3,9		
	-/			

Further documents are listed in the continuation of box C.	Patent family members are listed in annex.
Special categories of cited documents: 'A' document defining the general state of the art which is not considered to be of particular relevance 'E' earlier document but published on or after the international filling date 'L' document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) 'O' document referring to an oral disclosure, use, exhibition or other means 'P' document published prior to the international filling date but tater than the priority date claimed	 *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. *&* document member of the same patent family
Date of the actual completion of the international search	Date of mailing of the international search report
15 December 2003	23/12/2003
Name and mailing address of the ISA	Authorized officer
European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Christensen, J

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	ation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category °	Citation of document, with indication, where appropriate, of the relevant passages		Relevant to claim No.
A	US 4 762 146 A (HEITZ STEVEN A ET AL) 9 August 1988 (1988-08-09) column 3, line 24 - line 65; figure 1		1,4-7
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US 5762091	Α	09-06-1998	NONE		
DE 3535009	Α	09-04-1987	DE	3535009 A1	09-04-1987
GB 2262328	Α	16-06-1993	NONE		
US 4762146	Α	09-08-1988	NONE		